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PROCEEDINGS
OF
THE 5TH INTERNATIONAL SYMPOSIUM ON
SEASTAR2000
AND
ASIAN BIOLOGGING SCIENCE
(THE 9TH SEASTAR2000 WORKSHOP)
MARCH 5-6, 2009



EDITED BY
NOBUAKI ARAI

PREFACE

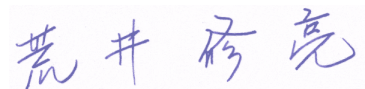
It is my great pleasure to publish the Proceedings of the 5th International Symposium on SEASTAR2000 and Asian Bio-logging Science (The 9th SEASTAR2000 workshop) held in Bangkok on March 5 – 6, 2009. There were 27 papers on 15 sea turtles, 3 fish telemetry and 9 marine mammals in the symposium. The participants were from 7 countries and 2 international organizations. I, hereby, appreciate all the participants. In the Proceedings, we selected and recorded the 16 papers on 7 sea turtles, 5 dugongs, 2 other marine mammals, 1 fish telemetry and 1 sea grass. The Proceedings are supposed to be registered in the data base in the Kyoto University Research Information Repository as following URL.

<http://repository.kulib.kyoto-u.ac.jp/dspace/bulletin/seastar2000>.

Recently, "Bio-logging" is remarkable as one of the techniques for researching the ecology of marine creatures. The bio-logging is a technique for efficiently acquiring the behavior and physiology of marine creatures in the ocean as well as some environmental data such as temperature, pressure and intensity of illuminance using a micro data logger directly attached to them. We set the challenge to clarify the ecology of marine creatures which are not readily visible by using bio-logging. We place small transmitters or recorders on target species and obtain ecological information of aquatic animals. This is a method to see "what is unseen".

We are performing the Southeast Asia sea turtle associative research (SEASTAR2000), the Mekong giant catfish tracking project (MCTP) and the dugong biological survey (DBS) as part of the 21st Century Centers of Excellence (COE) Program (2002-2006) and the Global COE Program (2007-2012). All the species of the projects are heavily endangered and need sufficient degree of protection. They are listed in the Convention on International Trade in Endangered Species (CITES) Appendix I. However, very little is known of the species whilst the implementation of their conservation is a pressing problem in Thailand and neighboring ASEAN countries. From the standpoint, it is important to discuss mutually each other among the researchers and administrators of the countries concerned.

We launched the first SEASTAR2000 workshop in 2000 in Kyoto, Japan. Since then the meeting has been held every year. I hope to continue the meeting and create the next generation.



Nobuaki Arai
Secretary to SEASTAR2000

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PART I :
SEA TURTLES

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FISH

PART V :
SEA GRASS

THE 5TH INTERNATIONAL SYMPOSIUM ON SEASTAR2000 AND ASIAN BIOLOGGING SCIENCE

(The 9th SEASTAR2000 Workshop)

The symposium took place in Bangkok , Thailand on March 5 and 6, 2009.

Aim of the symposium was to promote the exchange of knowledge and experiences among researchers in ASEAN countries and Japan to perform SEASTAR2000 project and related projects.

The symposium was organized by Japanese institutes and Thai institutes including Kyoto University , Fisheries Laboratory of Kinki University, JSPS Bangkok Office, Japanese Society of Bio-logging Science, Department of Marine and Coastal Resources of Thailand and Department of Fisheries of Thailand .

PROGRAM

The scientific sessions covered 2 days and included oral and poster presentations, exhibits and demonstrations. The symposium program focused on four major topics:

- Sea turtle migration and conservation;
- Dugong surveys and conservation;
- Fish telemetry;
- Methodology and new technology

SCIENCE COMMITTEE MEMBERS

Wataru Sakamoto

(Professor of Kinki University, Emeritus Professor of Kyoto University)

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(Associate Professor of Kyoto University)

Special thanks to Dr. Tohya Yasuda for his beautiful design of the front cover.